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1 System-level design space exploration for hardware-software partitioning and platform instantiation: Power-performance trade-offs for reconfigurable computing

Juanjo Noguera, Rosa M. Badia

September 2004 Proceedings of the 2nd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis

Full text available: pdf(714.77 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we explore the system-level power-performance trade-offs available when implementing streaming embedded applications on fine-grained reconfigurable architectures. We show that an efficient hardware-software partitioning algorithm is required when targeting low-power. However, if the application objective is performance, then we propose the use of dynamically reconfigurable architectures. This work presents a configuration-aware data size partitioning approach. We propose a design ...

Keywords: HW/SW partitioning, dynamically reconfigurable architectures, power-performance trade-offs, task/configuration scheduling

² Linux tools for professional photography

R W Hawkins

October 2004 Linux Journal, Volume 2004 Issue 126

Full text available: html(19.94 KB) Additional Information: full citation, abstract

Tweak your system to make photo colors accurate, and more. Nowyou won't get a nasty surprise when the photo you send to LinuxJournal shows up all wrong.

3 Ergonomic studies in computer aided design

G. H. van der Heiden, E. Grandjean

June 1984 Proceedings of the 21st conference on Design automation

Full text available: pdf(580.78 KB) Additional Information: full citation, abstract, references, index terms

Although there is a large amount of research publications available on the ergonomics of Visual Display Terminals, only few authors applied human factors' thoughts in a CAD-environment. This paper describes the results of an ergonomic survey on interactive graphics workstations. Starting from an analysis of specific characteristics of CAD-operation, areas of improvement in workstation design can be deduced.

4 Special issue on SAC 2001 best papers: Evolutionary image enhancement with user

•	behavior modeling	
	Cristian Munteanu, Agostinho Rosa	
	April 2001 ACM SIGAPP Applied Computing Review, Volume 9 Issue 1 Full text available: pdf(831.87 KB) Additional Information: full citation, abstract, references	
	In this paper we present a novel method for image enhancement of gray-scale images based on the simulation of evolution. Our method employs Genetic Algorithms to evolve the shape of the contrast curve in the image, while attempting to partially automate the subjective process of image evaluation (e.g. user behavior) by performing multiple regression on fitness values. Results obtained show the robustness and efficiency of the evolutive method for image enhancement. For several images in the test	
	Keywords : image enhancement, multiple regression, real-coded genetic algorithms, subjective fitness	
5	Evolutionary image enhancement with user behaviour modeling	
	Cristian Munteanu, Agostinho Rosa March 2001 Proceedings of the 2001 ACM symposium on Applied computing	
	Full text available: pdf(188.50 KB) Additional Information: full citation, references, index terms	
	Keywords : image enhancement, multiple regression, real-coded genetic algorithms, subjective fitness	
6	Progress in Picture Processing: 196971	
	Azriel Rosenfeld	
	June 1973 ACM Computing Surveys (CSUR), Volume 5 Issue 2	
	Full text available: pdf(2.34 MB) Additional Information: full citation, references, citings, index terms	
7	Picture Processing by Computer	
	Azriel Rosenfeld	
	September 1969 ACM Computing Surveys (CSUR), Volume 1 Issue 3 Full text available: pdf(2.69 MB) Additional Information: full citation, references, citings, index terms	
	· · · · · · · · · · · · · · · · · · ·	
8	Image-based transfer function design for data exploration in volume visualization	
	Shiaofen Fang, Tom Biddlecome, Mihran Tuceryan October 1998 Proceedings of the conference on Visualization '98	
	Full toyt available:	
	pdf(1.78 MB) Additional Information: full citation, references, citings, index terms Publisher Site	
	Keywords : 3D image processing, data exploration, transfer function, volume rendering, volume visualization	
9	Multiblending: displaying overlapping windows simultaneously without the drawbacks of alpha blending	

Patrick Baudisch, Carl Gutwin

April 2004 Proceedings of the 2004 conference on Human factors in computing systems

Full text available: pdf(919.40 KB) Additional Information: full citation, abstract, references, index terms

Alpha blending allows the simultaneous display of overlapping windows-such as palette windows in visual workspaces. Although alpha blending has been used in some applications, such as games, it has not been widely adopted. One reason for the limited acceptance is that in many scenarios, alpha blending compromises the readability of content. We introduce a new blending mechanism called *multiblending* that uses a vector of blending weights, one for each class of features, rather than a singl ...

Keywords: alpha blending, semitransparency, windows

10 Oral I: 3D face recognition based on high-resolution 3D face modeling from	frontal	and
profile views	•	

Lijun Yin, Matt T. Yourst

November 2003 Proceedings of the 2003 ACM SIGMM workshop on Biometrics methods and applications

Full text available: pdf(528.92 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a novel face recognition system which considers information from both frontal and profile view images and videos. In the system, we recover facial texture details by increasing the input image resolution, construct an accurate 3D face model from two views of a face, and explore both 3D shape and texture informations for an optimal match and identification based on a 3D face model database. Unlike many existing 3D face recognition systems where the 3D model is taken as a bridg ...

Keywords: face identification, face modeling, super-resolution

11 Paint by numbers: abstract image representations

Paul Haeberli

September 1990 ACM SIGGRAPH Computer Graphics, Proceedings of the 17th annual conference on Computer graphics and interactive techniques, Volume 24 Issue 4

Full text available: pdf(7.56 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Computer graphics research has concentrated on creating photo-realistic images of synthetic objects. These images communicate surface shading and curvature, as well as the depth relationships of objects in a scene. These renderings are traditionally represented by a rectangular array of pixels that tile the image plane. As an alternative to photo-realism, it is possible to create abstract images using an ordered collection of brush strokes. These abstract images filter and refine visual informati ...

12 Student best paper contest: Proscenium: a framework for spatio-temporal video editing

Eric P. Bennett, Leonard McMillan

November 2003 Proceedings of the eleventh ACM international conference on Multimedia

Full text available: pdf(2.86 MB) Additional

Additional Information: full citation, abstract, references, index terms

We present an approach to video editing where movie sequences are treated as spatio-temporal volumes that can be sheered and warped under user control. This simple capability enables new video editing operations that support complex postproduction modifications, such as object removal and/or changes in camera motion. Our methods do not rely on complicated and error-prone image analysis or computer vision methods.

Moreover, they facilitate an editing approach to video that is similar to standard ...

Keywords: feature removal, feature selection, multimedia framework, special effects, video editing, video layers, video stabilization

13 Geometric surface processing via normal maps

Tolga Tasdizen, Ross Whitaker, Paul Burchard, Stanley Osher October 2003 ACM Transactions on Graphics (TOG), Volume 22 Issue 4

Full text available: pdf(203.44 KB)

Additional Information: full citation, abstract, references, citings, index terms

We propose that the generalization of signal and image processing to surfaces entails filtering the normals of the surface, rather than filtering the positions of points on a mesh. Using a variational strategy, penalty functions on the surface geometry can be formulated as penalty functions on the surface normals, which are computed using geometry-based shape metrics and minimized using fourth-order gradient descent partial differential equations (PDEs). In this paper, we introduce a two-step ap ...

Keywords: Surface fairing, anisotropic diffusion, geometric surface processing, high-boost filtering, level sets

14 An approach to image retrieval from large image databases

F. Rabitti, P. Stanchev November 1987 Proceedings of the 10th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(873.66 KB)

Additional Information: full citation, abstract, references, citings, index terms

In this paper we address the problem of retrieving images from large image databases, giving a partial description of the image content. This approach allows a limited automatic analysis for image belonging to a domain described in advance to the system using a formalism based on fuzzy sets. The image query processing is based on special access structures generated from the image analysis process.

15 Hermes: a notification service for digital libraries

D. Faensen, L. Faultstich, H. Schweppe, A. Hinze, A. Steidinger January 2001 Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries

Full text available: ndf(183.89 KB)

Additional Information: full citation, abstract, references, citings, index terms

The high publication rate of scholarly material makes searching and br owsing an inconvenient way to keep oneself up-to-date. Instead of being the active part in information access, researchers want to be notified whenever a new paper in one's research area is published. While more and more publishing houses or portal sites offer notification services this approach has several disadvantages. We introduce the Hermes alerting service, a service that integrates a variety of differen ...

Keywords: collaborative filtering, electronic publishing, recommender system

16 Sequential Operations in Digital Picture Processing

John L. Pfaltz

October 1966 Journal of the ACM (JACM), Volume 13 Issue 4

Full text available: pdf(2.13 MB)

Additional Information: full citation, references, citings, index terms

17 Qualitative modeling and simulation: promise or illusion
François E. Cellier December 1991 Proceedings of the 23rd conference on Winter simulation
Full text available: pdf(438.87 KB) Additional Information: full citation, references, citings, index terms
18 A partitioning algorithm for system-level synthesis
G. Menez, M. Auguin, F. Boéri, C. Carrière November 1992 Proceedings of the 1992 IEEE/ACM international conference on
Computer-aided design
Full text available: pdf(733.62 KB) Additional Information: full citation, references, citings, index terms
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19 Hierarchical volume analysis and visualization based on morphological operators
Christoph Lürig, Thomas Ertl
October 1998 Proceedings of the conference on Visualization '98
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20 Security is fuzzy!: applying the fuzzy logic paradigm to the multipolicy paradigm
Hilary H. Hosmer
August 1993 Proceedings on the 1992-1993 workshop on New security paradigms
Full text available: pdf(1.02 MB) Additional Information: full citation, references, citings
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1 Quadratic filters for image contrast enhancement

Strobel, N.; Mitra, S.K.;

Signals, Systems and Computers, 1994. 1994 Conference Record of the Twent Eighth Asilomar Conference on , Volume: 1 , 31 Oct.-2 Nov. 1994 Pages: 208 - 212 vol.1

[Abstract] [PDF Full-Text (424 KB)] **IEEE CNF**

2 An unsharp sieve [image processing]

Menhardt, W.;

Image Processing and its Applications, 1989., Third International Conference on, 18-20 Jul 1989

Pages: 679 - 681

[PDF Full-Text (108 KB)] **IEE CNF** [Abstract]

3 Image enhancement via adaptive unsharp masking

Polesel, A.; Ramponi, G.; Mathews, V.J.;

Image Processing, IEEE Transactions on , Volume: 9 , Issue: 3 , March 2000 Pages: 505 - 510

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4 Evaluation of digital unsharp masking and local contrast stretching a applied to chest radiographs

Rogowska, J.; Preston, K., Jr.; Sashin, D.;

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6 Directional-rational approach for color image enhancement

Cheikh, F.A.; Gabbouj, M.;

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Laine, A.; Fan, J.; Schuler, S.;

Engineering in Medicine and Biology Society, 1994. Engineering Advances: Ne Opportunities for Biomedical Engineers. Proceedings of the 16th Annual International Conference of the IEEE, 3-6 Nov. 1994

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[Abstract] [PDF Full-Text (152 KB)] IEEE CNF

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